

**FIG. 1A**

5 3 4 107  
↓ P ↓ RBS Met  
1 GGCTACTAAATATTTCCTACTATACAAATTAATACACAGATAATCIGTCICATTCGGTTATTCIGCAAAATGAAAAAAGGAGGATAAAGA GTG  
99 AGA GGC AAA AAA GTA TGG ATC AGT TTG CTG TTT GCT TTA GCG TTA ATC TTT ACG ATG GCG TTC GGC AGC ACA TCC  
174 TCT GCC CAG CCG GCA GCG AAA TCA AAC GGG GAA AAG AAA TAT ATT GTC GGG TTT AAA CAG ACA ATG AGC ACG ATG  
249 Ser Ala Ala Lys Lys Lys Asp Val Ile Ser Glu Lys Gly Lys Val Gln Phe Lys Tyr Val Asp Ala  
AGC GCC GCT AAG AAG AAA GAT GTC ATT TCT GAA AAA GGC GGG AAA GTG CAA AAG CAA TTC AAA TAT GTA GAC GAA  
324 Ala Ser Ala Thr Leu Asn Glu Lys Ala Val Lys Glu Lys Lys Val Gln Phe Lys Tyr Val Glu Asp  
GCT TCA GCT ACA TTA AAC AAC GAA GAA GCT GTA AAA GCT TTA AAA TTT AAA GAC CCG AGC GTC GCT TAC GTT GAA GAA GAT  
399 His Val Ala His Ala Tyr Ala Gln Ser Val Pro Tyr Gly Val Ser Gln Ile Lys Ala Pro Ala Leu His Ser Gln  
CAC GTA GCA CAT GCG TAC GCG CAG TCC GTG CCT TAC GGC GTA TCA CAA ATT AAA GCC CCT GCT CTG CAC TCT CAA  
474 Gly Tyr Thr Gly Ser Asn Val Val Lys Val Ala Val Ile Asp Ser Ser Ser His Pro Asp Leu Lys Val  
GGC TAC ACT GGA TCA AAT GTT AAA GTA GCG GTT ATC GAC AGC GGT ATC GAT TCT TCT CAT CAT CCT GAT TTA AAG GTA

PRE -100 -90 -80 -70 -60 -50 -40 -30 -20 -10  
MAT

FIG. 1B - 1

549	Ala	Gly	Gly	Ala	Ser	Met	Val	Pro	Ser	Glu	Thr	Asn	Pro	Asn	60	Asp	Asn	Ser	His	Gly	Thr	His	Val	Ala
	GCA	GGC	GGA	GCC	AGC	ATG	GTT	CCT	CCT	TCT	GAA	ACA	AAT	CCT	TTC	CAA	GAC	AAC	TCT	CAC	GGA	ACT	CAC	GTT
624	Gly	Thr	Val	Ala	Ala	Leu	Asn	Asn	Ser	Ile	Gly	Val	Gly	Leu	80	Ala	Pro	Ser	Ala	Ser	Tyr	Ala	Val	
	GGC	ACA	GTT	GCG	GCT	CTT	AAT	AAC	TCA	ATC	GGT	GTA	TTA	GGC	GTT	GCG	CCA	AGC	GCA	TCA	CTT	TAC	GCT	
699	Val	Leu	CTC	Gly	Ala	Asp	Gly	Ser	Gly	Gln	Tyr	Ser	Trp	Ile	110	Glu	Ile	Trp	Ala	Ala	Ile	Ala	Asn	
	GTT	CTC	GGT	GCT	GAC	GGT	TCC	GGC	GCA	CAA	TAC	AGC	TGG	ATC	ATT	AAC	GGA	ATC	GAG	TGG	GCG	ATC	GCA	
774	Asp	Val	Ile	Asn	Met	Ser	Leu	Gly	Gly	Pro	Ser	Gly	Ser	Ala	130	Leu	Lys	Ala	Ala	Val	Asp	Lys	Ala	
	GAC	GTT	ATT	AAC	ATG	AGC	CTC	GGC	GGA	CCT	TCT	GGT	TCT	GCT	GCT	TTA	AAA	GCG	GCA	GTT	GAT	AAA	GCC	
849	Ser	Gly	Val	Val	Val	Val	Ala	Ala	Ala	Gly	Asn	Glu	Gly	Thr	150	Ser	Ser	Ser	Ser	Thr	Val	Gly	Tyr	
	TCC	GGC	GTC	GTA	GTC	GTT	GCG	GCA	GCC	GGT	AAC	GAA	GGC	ACT	TCC	GGC	AGC	TCA	AGC	ACA	GTG	GGC	TAC	
924	Lys	Tyr	Pro	Ser	Val	Ile	Ala	Val	Gly	Ala	Val	Asp	Ser	Ser	180	Gln	Arg	Ala	Ser	Phe	Ser	Ser	Val	
	AAA	TAC	CCT	TCT	GTC	ATT	GCA	GTA	GGC	GCT	GTT	GAC	AGC	AGC	CAA	AGA	GCA	TCT	TTC	TCA	AGC	GTA	GGA	
999	Glu	Leu	Asp	Val	Met	Ala	Pro	Gly	Val	Ser	Ile	Gln	Ser	Thr	200	Pro	Gly	Asn	Lys	Tyr	Gly	Ala	Tyr	
	GAG	CTT	GAT	GTC	ATG	GCA	CCT	GGC	GTA	TCT	ATC	CAA	AGC	ACG	CTT	CCT	GGA	AAC	AAA	TAC	GGG	GCG	TAC	
1074	Thr	Ser	Met	Ala	Ser	Pro	His	Val	Val	Ala	Gly	Ala	Ala	Leu	230	Ile	Leu	Ser	Lys	His	Pro	Asn	Thr	
	ACG	TCA	ATG	GCA	TCT	CCG	CAC	GTT	GCC	GGA	GCG	GCT	GCT	TTG	ATT	CTT	TCT	AAG	CAC	CCG	AAC	TGG	ACA	

**FIG. 1B - 2**

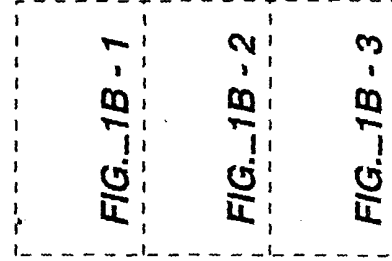
1149 CAA GTC CGC AGC AGT TTA GAA AAC AAC ACC ACT ACA Thr Thr Lys Leu Gly Asp Ser Phe Tyr Gly Lys Gly Leu Ile Asn  
 250 Gln  
 270 Val Gln Ala Ala Ala Gln OC

1224 GTA CAG GCG GCA GCT CAG TAA AACATAAAACCGGCCCTTGGCCCCCGCGGTTTTTCTCTCCCGCATGTTCAATCCGCTCC  
 260  
 275  
 TERM

1316 ATAATCGACGGATGGCTCCCTCTGAAAAATTTTAACGAGAAACGGGGGTTGACCCGGCTCAGTCCCGTAACGGCCAAGTCCCTGAAACGTCCTCAATCGGCGG

1416 CTTCCTCCGGTTCCGGTCAGCTCAATGCCGTACGGTCGGGGCGGTTTTCTGATACCGGGAGACGGCATTCGTAATCGGATC

## FIG.\_1B - 3



## FIG.\_1B